

WHAT IS CLAIMED IS:

1. A resistance type sensor comprising:

a detective member,

a first electrode being opposite to the detective member,

5 a second electrode arranged between the detective member and the first electrode, the second electrode being opposite to the first electrode and be displaceable toward the first electrode increasingly with displacement of the detective member,

a pressure-sensitive resistive member arranged between the first
10 electrode and the second electrode,

one or more first switching electrodes opposite to the detective member, and

one or more second switching electrodes arranged between the detective member and the first switching electrode(s) in such a relation as
15 to be opposite to the first switching electrode(s) and also spaced apart from the first switching electrode(s), the second switching electrodes being contactable with the first switching electrode(s) increasingly with displacement of the detective member,

wherein the resistance type sensor is capable of recognizing the
20 displacement of the detective member on the basis of a detection of a change in resistance value between the first electrode and the second electrode of each pair.

2. The resistance type sensor according to Claim 1, which further comprises:

25 a first substrate disposed on the side opposite to the second electrode

with respect to the first electrode and having the first electrode on its surface ,

a second substrate disposed on the side opposite to the first electrode with respect to the second electrode and having the second electrode on its
5 surface,

a first switching substrate disposed on the side opposite to the second switching electrode(s) with respect to the first switching electrode(s) and having the first switching electrode(s) on its surface, and

a second switching substrate disposed on the side opposite to the first
10 switching electrode(s) with respect to the second switching electrode(s) and having the second switching electrode(s) on its surface.

3. The resistance type sensor according to Claim 1 or 2, wherein the first and second switching electrodes are disposed in such a relation that they are overlapped with the first and second electrodes with respect to a
15 displacement direction of the detective member.

4. The resistance type sensor according to any one of Claims 1 to 3, wherein the first substrate, the second substrate, the first switching substrate and the second switching substrate are formed by a single common substrate having flexibility.

20 5. The resistance type sensor according to Claim 4, wherein the first electrode, the second electrode, the first switching electrode, and the second switching electrode are all arranged on one side of the common substrate.

6. The capacitance type sensor according to any one of Claims 1 to 5, wherein the first and second switching electrodes are disposed to be closer
25 to the detective member than the first and second electrodes.

7. The resistance type sensor according to Claim 6, wherein either of the first and second switching electrodes is connected to ground and the other of the first and second switching electrodes are held at different potential from ground potential, and wherein the first and second switching
5 electrodes come to be increasingly contacted with each other with the displacement of the detective member, followed by displacement of the second electrode.

8. The resistance type sensor according to any one of Claims 1 to 7, wherein there are provided two or more groups of the first and second
10 electrodes or two or more groups of the first and second switching electrodes.